

Experimental Procedure – Preparation of Methyl L-Alanyl-L-phenylalaninate Trifluoroacetate

1. Place 300 mg of methyl N-tert-butoxycarbonyl-L-alanyl-L-phenylalaninate in a 25 mL round-bottom flask containing a rice stir bar and add 6 mL of dichloromethane. Begin stirring the solution.
2. Using a syringe add 1.5 mL of trifluoroacetic acid to the flask and continue stirring the mixture for 30 min at room temperature.
3. Transfer the solution to a 100 mL beaker and remove the stir bar. Evaporate most of the solvent by air drying it and then add 4 mL of diethyl ether to the flask. Place the flask in an ice-water bath for 10-15 min to complete the precipitation.
4. Collect the white solid by vacuum filtration and air-dry it.
5. Weigh the recrystallized product, determine its melting point, and obtain an IR spectrum.